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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/565,031	REINHARD ET AL.				
Office Action Summary	Examiner	Art Unit				
	THOMAS A. MORRISON	3653				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>06 No</u>	ovember 2009					
	· · · · · · · · · · · · · · · · · · ·					
<i>i</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under Lx parte Quayle, 1330 O.D. 11, 400 O.G. 210.						
Disposition of Claims						
4)⊠ Claim(s) <u>54-107</u> is/are pending in the application	☑ Claim(s) <u>54-107</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>54-107</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/1/09 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 54-55, 58-63, 65-66, 71, 77-78, 80-81, 85, 87-88, 90, 92-94, 96 and 100-107 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 2004/0026851 (Schaede et al.) (hereinafter "Schaede").

Regarding claim 54, Figs. 1, 7 and 10 show sheet-processing machine for processing sheets each comprising a plurality of copies, the sheet-processing machine comprising a plurality of modules (including 120, 121-127, 128 and 129) through which the sheets are transported one after the other along a sheet conveying direction (from right to left), the plurality of modules (including 120, 121-127, 128 and 129) including a sheet feeder module (120) for feeding the sheets and one or more downstream sheet-

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processing modules including at least an inspection module (Figs. 1, 7 and 10) for monitoring the print quality of the sheets,

wherein the inspection module (Figs. 1, 7 and 10) comprises two transport cylinders (i.e., the two small cylinders shown in Figs. 1 and 10) for transporting the sheets for inspection of front and rear sides of the sheets by inspection devices (including 12 and 13 in Fig. 1),

wherein the inspection module (Figs. 1, 7 and 10) comprises a third transport cylinder (element 123 in Fig. 10 or element 8 shown in Fig. 1, which is provided in the form of a drum with openings therein, as best shown in Fig. 7) having a transparent casing (i.e., a casing openings 84 allow light to be transmitted so that objects or images beyond can be clearly perceived) and an additional inspection device (including 10 and 11 in Fig. 1) for inspecting light-transmitting capacity of the sheets, and

wherein the additional inspection device (including 10 and 11 in Fig. 1) comprises an image sensor (10) and a light source (11) for inspection by transmission, the light source (11) being arranged within the transparent .casing of the third transport cylinder.

To further clarify, the examiner relies upon Figs. 1 and 10 to show the details of a conveying device with an inspection module. The examiner relies upon Fig. 1 to show the details of the inspection devices (12 and 13) and the additional inspection device (including 10 and 11). Also, an inspection module is shown installed in a sheet-processing machine in Fig. 10. Finally, the disclosure for Fig. 7 in numbered paragraph [0081] – [0084] explains that a conveying device with an inspection module can be used that includes a conveying cylinder with a **cylinder body having openings 84 therein**

to allow accessibility into the inspection device inside such conveying cylinder.

The examiner considers this cylindrical body with openings therein to be a third transport cylinder having a transparent casing, as claimed.

Regarding claim 55, Fig. 1 shows that the inspection devices (including 12 and 13 in Fig. 1) comprise an image sensor (12) and a light source (13) for inspection by reflection.

Regarding claim 58, Fig. 1 shows that the inspection module comprises an even number (i.e., 4) of transport cylinders for transporting the sheets from a sheet input interface to a sheet output interface of the inspection module.

Regarding claim 59, Fig. 10 shows that the sheet feeder module (120) and inspection module (Fig. 10) each have their own respective side frame panels. For example, Fig. 2 shows side frame panels for the inspection module.

Regarding claim 60, Figs. 1, 2 and 10 show that the sheet feeder module (120) and inspection module (Figs. 1 and 10) each have at least one transport cylinder which is fixed to the side frame panels.

Regarding claim 61, Fig. 10 show that the side frame panels of the sheet feeder (120) module and inspection module (Figs. 1 and 10) are fixed to one another.

Regarding claim 62, numbered paragraph [0031] discloses that a numbering module for applying serial numbering to the sheets is provided downstream of the inspection module (Figs. 1, 7 and 10) with respect to the sheet conveying direction.

Regarding claim 63, the sheet feeder module (120), inspection module (Figs. 1 and 10) and numbering module (numbered paragraph [0031]) each have their own respective side frame panels.

Regarding claim 65, numbered paragraphs [0031] and [0032] disclose that the numbering module is arranged behind the inspection module (Figs. 1 and 10) with respect to the sheet conveying direction, so as to apply the numbering only to those sheets which have passed the quality check carried out by the inspection module.

Regarding claim 66, numbered paragraph [0031] discloses that the numbering module comprises at least one numbering unit for printing a serial number on the sheets to be processed.

Regarding claim 71, numbered paragraphs [0031] and [0032] disclose that an inking unit module is provided which, in conjunction with the numbering module, forms a printing module.

Regarding claim 77, Figs. 1 and 10 show a marking module (129) for marking a sheet as usable or unusable depending on a monitoring result of the inspection module (Figs. 1 and 10) is provided downstream of the inspection module (Figs. 1 and 10) with respect to the sheet conveying direction.

Regarding claim 78, Figs. 1 and 10 show that the sheet feeder module (120), inspection module (Figs. 1 and 10) and marking module (129) each have their own respective side frame panels.

Regarding claim 80, as best understood, a marking device (129) for applying a marking to the sheets is arranged in the marking module.

Regarding claim 81, numbered paragraph [0102] discloses that an inking unit module is provided which, in conjunction with the marking module (129), forms a printing module.

Regarding claim 85, as best understood, the inking unit module (numbered paragraph [0102]) is removably installed (i.e., capable of being removed) on the marking module (129).

Regarding claim 87, Fig. 10 shows a marking device (129) for applying a marking to the sheets.

Regarding claim 88, as best understood, the marking device (129) marks an edge region of a column and/or row in which a fault detected by the inspection module (Figs. 1 and 10) is located.

Regarding claim 90, the marking device (129) is arranged to apply the marking as unusable selectively to individual copies or in relation to individual copies on a sheet.

Regarding claim 92, numbered paragraph [0102] discloses that the marking device (129) is an inkjet printing unit.

Regarding claim 93, Fig. 10 shows that a transport module (including 121) is further provided, which transport module (including 121) is interposed between the sheet feeder module (120) and the inspection module (Figs. 1 and 10).

Regarding claim 94, Fig. 10 shows that an inking unit module (129) is provided which, in conjunction with the transport module (including 121), forms a printing module.

Regarding claim 96, Fig. 10 shows that a form cylinder (121) is provided in the transport module (including 121) for cooperation with the inking unit module to form the

printing module. Regarding the recitation "for cooperation with the inking unit module to form the printing module", this recitation does not distinguish claim 96 from the prior art apparatus of Schaede, particularly in view of MPEP 2114.

Regarding claim 100, Fig. 10 shows that columns (unnumbered feet in Fig. 10) are provided for supporting the sheet feeder module (120), the transport module (including 121) and the inspection module (Figs. 1 and 10).

Regarding claim 101, Fig. 10 shows that an expansion module (128) is further provided, which expansion module (128) is interposed between the inspection module (Figs. 1 and 10) and the marking module (129).

Regarding claim 102, Fig. 10 shows that columns (unnumbered feet in Fig. 10) are provided for supporting the sheet feeder module (120), the inspection module (Figs. 1 and 10) and the expansion module (128).

Regarding claim 103, Fig. 10 shows that columns are provided for supporting the sheet feeder module (unnumbered feet on element 120) and the inspection module (unnumbered feet below element 122).

Regarding claim 104, Fig. 10 shows that an output transport cylinder at a sheet output interface of the inspection module (Figs. 1 and 10) and an output transport cylinder at a sheet output interface of the sheet feeder module (120) are arranged at a same height. See, e.g., cylinder 121 and unnumbered cylinder at the same height in Fig. 10.

Regarding claim 105, Fig. 10 shows that transfer of a sheet from an upstream module to a downstream module is effected by means of an output transport cylinder

located at a sheet output interface of the upstream module which transfers the sheet to an input transport cylinder located at a sheet input interface of the downstream module. See, e.g., unnumbered cylinders on element 128 and unnumbered cylinder below reference numeral 127. Alternatively, see cylinders 121 and 122.

Regarding claim 106, Fig. 10 shows that the output transport cylinder (121) of the upstream module and the input transport cylinder (122) of the downstream module have opposite directions of rotation.

Regarding claim 107, Fig. 10 shows that a circumference of the input and output transport cylinders are of a same size. See, e.g., unnumbered cylinders on element 128 and unnumbered cylinder below reference numeral 127.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 56 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schaede as applied to claim 54 above, and further in view of U.S. Patent No. 6,166,366 (Lewis et al.). Schaede discloses inspection devices (including 12 and 13) that include a light source (13) and a light sensor (12), but Schaede does not explicitly disclose that such light source and light sensor include a UV light source and a light sensor, as claimed

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Lewis et al. discloses that it is well known to provide a printing apparatus with a UV light source and light sensor that detects such light source, for the purpose of detecting defects in printed materials conveyed in the printer apparatus. See, e.g., col. 14, line 55 - col. 15, line 10, abstract, and Figs. 1-18. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the transport cylinder of the apparatus of Schaede with a UV light source and a UV light sensor for the purpose of detecting defects in materials conveyed on the printing apparatus of Schaede, as taught by Lewis et al. Thus, all of the limitations of claim 56 are met by this combination of references.

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4. Claim 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schaede as applied to claim 54 above, and further in view of U.S. Patent No. 4,299,325 (Quinton et al.). Schaede discloses that it is well known to use inspection devices (including 12 and 13) for detecting defects in printed materials, but Schaede does not explicitly disclose that such inspection devices include a magnetic field sensor, as claimed

Quinton et al. discloses that it is well known to provide a sheet handling apparatus with a magnetic field sensor for the purpose of detecting defects in printed materials. See, e.g., Fig. 1 and col. 2, lines 31-36 of Quinton et al. Because Schaede and Quinton et al. both teach sensors for detecting defects in printed materials, it would have been obvious to one skilled in the art to substitute the detecting device (2) of Quinton et al. for the detecting devices (including 12 and 13) of Schaede to achieve the

predictable result of detecting defects in printed materials. Thus, all of the limitations of claim 57 are met.

5. Claims 62-76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaede as applied to claim 54 above, and further in view of Canadian Publication No. 2407810 (cited in the previous Office Action).

Regarding claim 62, Schaede discloses that it is well known to provide a printing machine (128) downstream of an inspection module (Figs. 1 and 10) with respect to the sheet conveying direction, but Schaede does not explicitly disclose that such printing machine (128) includes a numbering module, as claimed.

Canadian Publication No. 2407810 discloses that it is well known in the art to provide a printing machine (including 24) with a numbering module (including 12-14) for the purpose of applying serial numbering to the sheets. See, e.g., English abstract of Canadian Publication No. 2407810. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the printing machine (128) of Schaede with a numbering module for the purpose of applying serial numbering to sheets, as taught by Canadian Publication No. 2407810.

Regarding claim 63, the sheet feeder module (120) of Schaede, inspection module (Figs. 1 and 10) of Schaede and printing machine (128) of Schaede each have their own respective side frame panels. By providing the numbering module on the printing machine (128), in a manner as taught by Figs. 1-3 of Canadian Publication No. 2407810, the sheet feeder module (120), inspection module (Figs. 1 and 10) and numbering module of Schaede will each have their own respective side frame panels.

Regarding claim 64, Fig. 3 of Canadian Publication No. 2407810 shows that it is well known to provide the numbering module (including 12-14) with a cut-out, for engagement and support of side frame panels of an inspection module (including 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the numbering module of Schaede in view of Canadian Publication No. 2407810 with a cut out for engagement and support of the inspection module (Figs. 1 and 10) of Schaede, as shown in Canadian Publication No. 2407810.

Regarding claim 65, Fig. 1 of Canadian Publication No. 2407810 shows that the numbering module (including 12-14) is arranged behind an inspection module (including 7) with respect to a sheet conveying direction, so as to apply the numbering only to those sheets which have passed the quality check carried out by the inspection module. Providing this same numbering module arrangement (including 12-14) of Canadian Publication No. 2407810 next to the inspection module (Figs. 1 and 10) of Schaede, in a manner as shown in Fig. 1 of Canadian Publication No. 2407810, will result in the same numbering module arrangement as set forth in claim 65.

Regarding claim 66, Fig. 1 of Canadian Publication No. 2407810 shows that the numbering module (including 12-14) comprises at least one numbering unit (13) for printing a serial number on the sheets to be processed. See also page 9 of the specification of Canadian Publication No. 2407810.

Regarding claim 67, Fig. 1 of Canadian Publication No. 2407810 shows that the numbering module (including 12-14) comprises two numbering units (13 and 14) which are arranged on a counter-pressure cylinder (12) with two printing segments. This

same numbering module arrangement taught in Fig. 1 of Canadian Publication No. 2407810 would be applied to the printing machine (128) of Schaede.

Regarding claim 68, Fig. 1 of Canadian Publication No. 2407810 shows that a marking device (12 or 15) for applying a marking to the sheets is arranged in the numbering module (including 12-14).

Regarding claim 69, Fig. 1 of Canadian Publication No. 2407810 shows that the marking device (15) is arranged upstream of a numbering unit (13 or 14) of the numbering module (including 12-14). This same numbering module arrangement would be applied to the printing machine (128) of Schaede.

Regarding claim 70, Fig. 1 of Canadian Publication No. 2407810 shows that the marking device (12) is arranged on a counter-pressure cylinder of the numbering module (including 12-14). This same numbering module arrangement would be applied to the printing machine (128) of Schaede.

Regarding claim 71, Fig. 1 of Canadian Publication No. 2407810 shows that an inking unit module (15) is provided which, in conjunction with the numbering module (including 12-14), forms a printing module.

Regarding claim 72, Fig. 1 of Canadian Publication No. 2407810 shows that inking unit rollers of the inking unit module (15) are mounted in side frame panels which are connected to side frame panels of the numbering module (including 12-14). This same inking unit module and numbering module arrangement would be applied to the printing machine (128) of Schaede.

Regarding claim 73, Fig. 1 of Canadian Publication No. 2407810 shows that a form cylinder (12) is provided in the numbering module (including 12-14) for cooperation with the inking unit module (15) to form the printing module. This same numbering module arrangement and inking unit module arrangement would be applied to the printing machine (128) of Schaede.

Regarding claim 74, Fig. 1 of Canadian Publication No. 2407810 shows that the printing module uses an output transport cylinder of an inspection module (including 7) upstream of the numbering module (including 12-14) as counter-pressure cylinder for the form cylinder (12). This same arrangement would be applied to the printing machine (128) of Schaede.

Regarding claim 75, as best understood, the inking unit module (15) of Canadian Publication No. 2407810 is removably installed (i.e., capable of being removed) on the numbering module (including 12-14) of Canadian Publication No. 2407810. This same arrangement would be applied to the printing machine (128) of Schaede.

Regarding claim 76, Fig. 1 of Canadian Publication No. 2407810 shows that the form cylinder (12) is smaller than the cylinders of the inspection module (including 7), but does not explicitly show that the form cylinder (12) is of a same size as the output transport cylinder acting as counter-pressure cylinder. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the size of the form cylinder (12) the same size as the output transport cylinder acting as the counter-pressure cylinder, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. One of

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ordinary skill in the art would have been motivated to make these two parts the same size, e.g., to simplify the manufacturing process by limiting the number of different sized parts.

6. Claims 77-86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaede as applied to claim 54 above, and further in view of Canadian Publication No. 2407810.

Regarding claim 77, Fig. 10 of Schaede discloses that it is well known to provide a printing machine (128) downstream of an inspection module (Figs. 1 and 10) with respect to the sheet conveying direction, but Schaede does not explicitly disclose that such printing machine (128) includes a marking module, as claimed.

Canadian Publication No. 2407810 discloses that it is well known in the art to provide a printing machine (including 24) with a marking module (including 12-14) for the purpose of applying serial numbering to sheets. See, e.g., English abstract of Canadian Publication No. 2407810. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the printing machine (128) of Schaede with a marking module for the purpose of applying serial numbering to sheets, as taught by Canadian Publication No. 2407810. Page 9, lines 16-26 of the specification of Canadian Publication No. 2407810 disclose that the marking module (including 12-14) is used for marking a sheet as usable or unusable depending on a monitoring result of an inspection module (including 7) of Canadian Publication No. 2407810 would be applied to the apparatus of Schaede on the printing machine (128) that is

downstream of the inspection module (Figs. 1 and 10) of Schaede with respect to the sheet conveying direction.

Regarding claim 78, Fig. 1 of Canadian Publication No. 2407810 shows that a sheet feeder module (1), inspection module (including 7) and marking module (including 12-14) each have their own respective side frame panels. This same arrangement taught by Canadian Publication No. 2407810 would be applied to the apparatus of Schaede.

Regarding claim 79, Figs. 1-3 of Canadian Publication No. 2407810 show that the marking module (including 12-14) has a cut-out for engagement and support of the side frame panels of an inspection module (including 7). This same arrangement taught by Canadian Publication No. 2407810 would be applied to the apparatus of Schaede.

Regarding claim 80, Fig. 1 of Canadian Publication No. 2407810 shows that a marking device (13 or 14) for applying a marking to the sheets is arranged in the marking module (including 12-14).

Regarding claim 81, Fig. 1 of Canadian Publication No. 2407810 shows that an inking unit module (15) is provided which, in conjunction with the marking module (including 12-14), forms a printing module.

Regarding claim 82, Fig. 1 of Canadian Publication No. 2407810 shows that inking unit rollers of the inking unit module (15) are mounted in side frame panels which are connected to side frame panels of the marking module (including 12-14).

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Regarding claim 83, Fig. 1 of Canadian Publication No. 2407810 shows that a form cylinder (12) is provided in the marking module (including 12-14) for cooperation with the inking unit module (15) to form the printing module.

Regarding claim 84, Fig. 1 of Canadian Publication No. 2407810 shows that the printing module uses an output transport cylinder of the inspection module (including 7) upstream of the marking module (including 12-14) as counter-pressure cylinder for the form cylinder (12). This same arrangement taught by Canadian Publication No. 2407810 would be applied to the apparatus of Schaede.

Regarding claim 85, the inking unit module (15) is removably installed (i.e., capable of being removed) on the marking module (including 12-14).

Regarding claim 86, Fig. 1 of Canadian Publication No. 2407810 shows that the form cylinder (12) is smaller than the cylinders of the inspection module (including 7), but does not explicitly show that the form cylinder (12) is of a same size as the output transport cylinder acting as counter-pressure cylinder. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the size of the form cylinder (12) the same size as the output transport cylinder acting as the counter-pressure cylinder, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. One of ordinary skill in the art would have been motivated to make these two parts the same size, e.g., to simplify the manufacturing process by limiting the number of different sized parts.

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7. Claims 87-92 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaede as applied to claim 54 above, and further in view of Canadian Publication No. 2407810.

Regarding claim 87, Fig. 10 of Schaede discloses that it is well known to provide a printing machine (128), but Schaede does not explicitly disclose that such printing machine (128) includes a marking device for applying a marking to the sheets, as claimed.

Canadian Publication No. 2407810 discloses that it is well known in the art to provide a printing machine (including 24) with a marking device (including 12-14) for the purpose of applying serial numbering to sheets. See, e.g., English abstract of Canadian Publication No. 2407810. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the printing machine (128) of Schaede with a marking device for the purpose of applying serial numbering to sheets, as taught by Canadian Publication No. 2407810. This same arrangement taught by Canadian Publication No. 2407810 would be applied to the apparatus of Schaede on the printing machine (128) of Schaede.

Regarding claim 88, Canadian Publication No. 2407810 discloses that the marking device (including 12-14) marks an edge region of a column and/or row in which a fault detected by an inspection module (including 7) of Canadian Publication No. 2407810 is located. See, e.g., page 9, lines 16-26 of Canadian Publication No. 2407810.

Regarding claim 89, Canadian Publication No. 2407810 discloses that the marking device (including 12-14) marks a column and outputs a row number in which a fault detected by the inspection module is located. See, e.g., page 9, lines 16-26 of Canadian Publication No. 2407810.

Regarding claim 90, Canadian Publication No. 2407810 discloses that the marking device (including 12-14) is arranged to apply the marking as unusable selectively to individual copies or in relation to individual copies on a sheet. See, e.g., page 9, lines 16-26 of Canadian Publication No. 2407810.

Regarding claim 91, as best understood, Figs. 1-3 of Canadian Publication No. 2407810 disclose that the marking device (including 12-14) comprises a plurality of print heads (13 and 14) which are distributed uniformly transversely to the sheet conveying direction.

Regarding claim 92, page 9, lines 4-8 of Canadian Publication No. 2407810 disclose that the marking device (including 12-14) is an inkjet printing unit.

8. Claims 94-99 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaede as applied to claim 93 above, and further in view of Canadian Publication No. 2407810.

Regarding claim 94, Fig. 10 of Schaede discloses that it is well known to provide a printing machine (128), but Schaede does not explicitly disclose that such printing machine (128) includes a an inking unit module, as claimed.

Canadian Publication No. 2407810 discloses that it is well known in the art to provide a printing machine (including 24) with an inking unit module (including 12-14) for

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the purpose of applying serial numbering to sheets. See, e.g., English abstract of Canadian Publication No. 2407810. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the printing machine (128) of Schaede with an inking unit module for the purpose of applying serial numbering to sheets, as taught by Canadian Publication No. 2407810. This same arrangement taught by Canadian Publication No. 2407810 would be applied to the apparatus of Schaede on the printing machine (128) of Schaede. Providing the printer (128) of Schaede with an inking unit module in a manner as taught by Fig. 1 of Canadian Publication No. 2407810, results in such inking unit module being provided which, in conjunction with the transport module (including 121) of Schaede, forms a printing module.

Regarding claim 95, Figs. 1-3 of Canadian Publication No. 2407810 disclose that inking unit rollers (13 and 14) of the inking unit module (including 12-14) are mounted in side frame panels which are connected to side frame panels of a transport module (including 3) of Canadian Publication No. 2407810. This same inking unit module arrangement taught by Fig. 1 of Canadian Publication No. 2407810 would be applied to the printing machine (128) and transport module (including 121) of Schaede.

Regarding claim 96, Fig. 1 of Canadian Publication No. 2407810 shows that a form cylinder (3) is provided in the transport module (including 3) of Canadian Publication No. 2407810 for cooperation with the inking unit module (including 12-14) to form the printing module. This same arrangement of the form cylinder and inking unit module that is taught by Fig. 1 of Canadian Publication No. 2407810 would be applied

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to the transport module (including 121) and printing machine (128), respectively, of Schaede.

Regarding claim 97, Fig. 1 of Canadian Publication No. 2407810 shows that the printing module uses an output transport cylinder (2) of a sheet feeder module (1) upstream of a transport module (including 3) as counter-pressure cylinder for the form cylinder (3). This same arrangement of the output transport cylinder as counter-pressure cylinder for a form cylinder that is taught by Fig. 1 of Canadian Publication No. 2407810 would be applied to the form cylinder (121) of Schaede.

Regarding claim 98, as best understood, the inking unit module (including 12-14) of Canadian Publication No. 2407810 is removably installed (capable of being removed) on the transport module (including 3) of Canadian Publication No. 2407810. This same removable inking unit module taught in Canadian Publication No. 2407810 would be applied to the apparatus of Schaede.

Regarding claim 99, Fig. 1 of Canadian Publication No. 2407810 shows that the form cylinder (3) is small, like the counter-pressure cylinder (2), but Canadian Publication No. 2407810 does not explicitly disclose that the form cylinder (3) is of a same size as the output transport cylinder (2) acting as counter-pressure cylinder, as claimed. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the size of the form cylinder (3) the same size as the output transport cylinder (2) acting as the counter-pressure cylinder, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. One of ordinary skill in the art would have been motivated to

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make these two parts the same size, e.g., to simplify the manufacturing process by limiting the number of different sized parts. This same dimensional relationship between the form cylinder and counter-pressure cylinder taught by Canadian Publication No. 2407810 would be applied to the form cylinder (121) and associated counter-pressure cylinder of Schaede.

Response to Arguments

9. Applicant's arguments with respect to claims 54-107 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS A. MORRISON whose telephone number is (571)272-7221. The examiner can normally be reached on M-F, 8am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/Patrick Mackey/ Supervisory Patent Examiner, Art Unit 3653

1/27/2010